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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|------------------|----------------------|--------------------------|------------------|
| 10/533,602 | 04/29/2005 | Hideaki Yamaoka | 10921.321USWO | 9727 |
| 52835 | 7590 07/19/2006 | | EXAMINER | |
| , | CHUMANN, MUELLER | CYGAN, MICHAEL T | | |
| P.O. BOX 2902-0902 MINNEAPOLIS, MN 55402 | | | ART UNIT | PAPER NUMBER |
| | , | | 2855 | |
| | | | DATE MAIL ED: 07/10/2006 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | | |
|---|---|---------------------|----------------|--|--|--|--|
| Office Action Summary | | 10/533,602 | YAMAOKA ET AL. | | | | |
| | | Examiner | Art Unit | | | | |
| | | Michael Cygan | 2855 | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | | |
| Status | | | | | | | |
| 1) | Responsive to communication(s) filed on | _· | | | | | |
| 2a) <u></u> □ | This action is FINAL . 2b)⊠ This action is non-final. | | | | | | |
| 3) | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposition of Claims | | | | | | | |
| 4)⊠ | 4)⊠ Claim(s) <u>1-19</u> is/are pending in the application. | | | | | | |
| • | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| | 5) Claim(s) is/are allowed. | | | | | | |
| 6)⊠ | S)⊠ Claim(s) <u>1-19</u> is/are rejected. | | | | | | |
| 7) 🗌 | Claim(s) is/are objected to. | | | | | | |
| 8) 🗌 | 8) Claim(s) are subject to restriction and/or election requirement. | | | | | | |
| Applicati | on Papers | | | | | | |
| 9) 🗌 | The specification is objected to by the Examine | er. | | | | | |
| 10)⊠ The drawing(s) filed on <u>29 April 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | |
| 11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | | |
| 12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of: | | | | | | | |
| | 1. Certified copies of the priority documents have been received. | | | | | | |
| | 2. Certified copies of the priority documents have been received in Application No | | | | | | |
| | 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | |
| Attachmen | t(s) | | | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) | | | | | | | |
| 2) Notic | e of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Da | ate | | | | |
| 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/29/05, 5/15/06. 5) Notice of Informal Patent Application (PTO-152) 6) Other: | | | | | | | |

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 4, 7-9, 11, 14-17, and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Blackburn (US 6,761,816 B1). Blackburn discloses the claimed invention, a measuring instrument comprising a channel [40] for moving a sample liquid (column 16 line 66 through column 17 line 11) containing a solid component (e.g., blood; column 7 lines 7-11), wherein the first electrode [20] comprises an electrode transfer interface for providing/receiving electrons to the liquid sample (column 12 lines 20-52), the measuring instrument comprising concentration means (either the electrophoreses electrodes 10, or a volume exclusion element as described at column 17) for increasing the concentration of solids/large molecules near the electrodes (column 17 lines 11-25).

The volume exclusion element may comprise a water-absorbent polymer layer; see column 17 lines 33-37. The chamber (including the sides and cover and other system components) may be coated with the polymer; see column 17

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lines 33-42. The disclosure therefore anticipates the formation of polymer on any or all areas of the chamber, including the areas which, during electrophoresis, may be downstream of the moving sample. The instrument comprises a substrate [30] having a cover (see Figure 1, supporting anode 50).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 3, 6, 10, 12, 13, and 18 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Blackburn (US 6,761,816 B1). Blackburn discloses the claimed invention with

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the possible exception of a polymer having a water absorption power of 10 to 500 g/g, or certain relative dimensions, or certain average grain sizes. Although Blackburn lists a number of different polymers (agarose, sephadex, sepharose, polyacrylamide, dextran, polyethylene glycol, etc), no absorption power is specifically listed. However, due to the wide range of absorption and the wide range of listed polymers, it is believed that at least one of those polymers possesses a water absorption power/dimension/grain size within the claimed range. Alternatively, it would have been obvious to one having ordinary skill in the art to use a polymer composition having the claimed absorption power/dimension/grain size, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use or in the optimum or workable ranges. See, e.g., In re Leshin, 125 USPQ 416; In re Aller, 105 USPQ 233.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Cygan whose telephone number is (571) 272-2175. The examiner can normally be reached on 8:30-6 M-Th, alternate Fridays.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MICHAEL CYGAN, PALB PRIMARY EXAMINER